



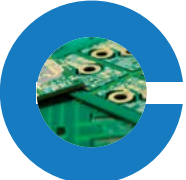
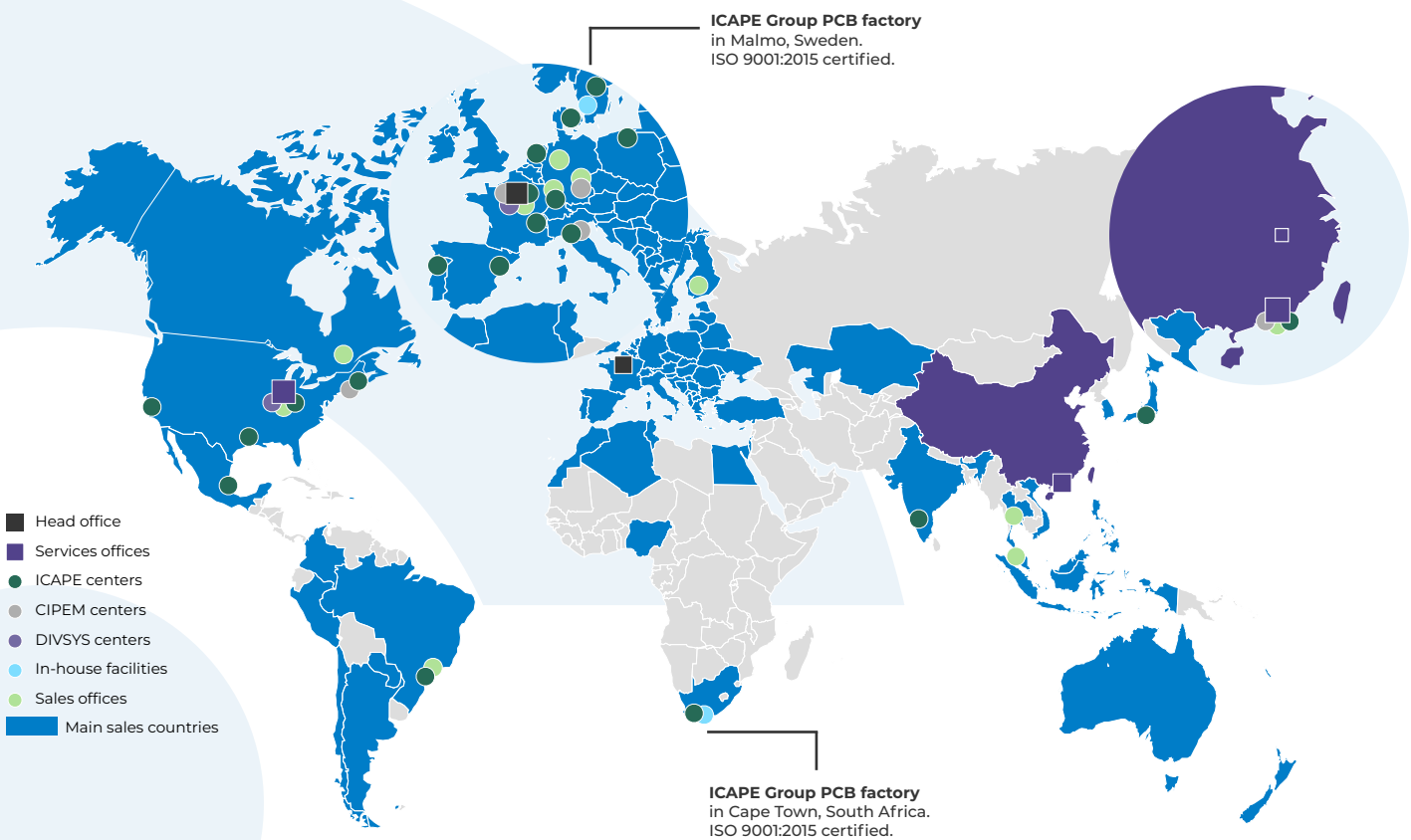
Printed Circuit Boards Custom Technical Parts PCB Lab Testing

ICAPE GROUP
The power of precision

Worldwide organization

global presence & local support

The power of precision



26M PCBs & 6M technical parts delivered per month



600 employees worldwide 250 experts in Asia



2,000 clients worldwide delivered in 70 countries

CONSTANT GROWTH

A strong market presence with over **28 sales centers** and a **large customer base all over the world** secure and accelerate ICAPE Group's business growth! We benefit from strong demand and organic growth as well as growth through mergers and acquisitions. Our local presence in the production chain of our partner factories in Southeast Asia and North America generates a real difference for our customers by securing delivery times and continuous improvements in engineering, quality, technology and sustainability.

Founder & chairman

Thierry Ballenghien

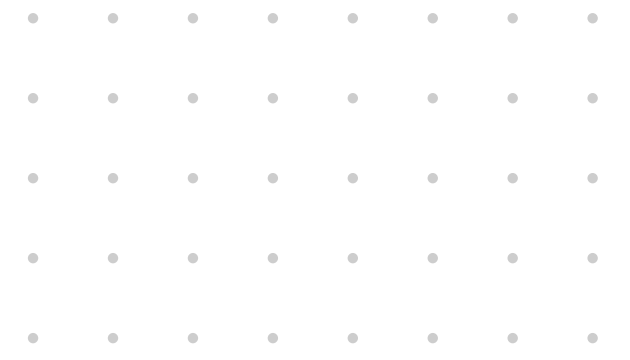
Created in 1999, ICAPE Group today is one of the world's leaders in the supply of Printed Circuit Boards for the electronics industry.

Many industries use Printed Circuit Boards every day, but they remain technical and complex products that require the highest level of knowledge and precision. The strategic choices regarding the design or the technology require control of every step of the manufacturing process to ensure the perfect reliability of your final product. ICAPE Group aims to bridge these industries that need PCBs and our factory partners' networks in Asia and Mexico with a full range of services and true competitiveness.

For many years, ICAPE Group has invested globally to be closer than ever with its customers. Today, we have 28 subsidiaries with 600 employees all around the world that offers complete management, in your country and your native language, to your projects with many branches to expand our activities: ICAPE for PCB distribution, CIPEM for electro-mechanical parts, DIVSYS for assembly & full-service products, Trax for PCB manufacturing, and IQTS for express services.

ICAPE Group gathers various strengths and talents to offer clients a wide range of products, technologies, services, suppliers, and local support. We have stepped back to examine who we are and how we want to express our continued desire to provide precise and detailed expertise. Given our expansion into additional fields within the PCB industry, such as manufacturing and logistics, ICAPE Group was no longer as simple to define as it once was. Thus, we have decided to evolve our brand in a way that includes the entirety of what ICAPE Group has to offer moving forward. Despite this, our objective towards our clients remains the same, quality product and optimal service.

ICAPE Group is the right partner for your future!



THIERRY BALLENGHIEN
FOUNDER & CHAIRMAN



Core values

strong vision for successful projects

I

INTEGRITY . . .

We have a strong commitment to integrity and responsibility. All our employees and partners work hard to create and foster an environment that values integrity, openness and mutual respect.

C

CUSTOMER-FOCUSED . . .

We are committed to providing complete and full services to all our clients. Each department is focused on bringing a true added value to all our customers' projects.

A

AUTONOMY . . .

Our teams are present directly in the factories to ensure quality and adherence to specifications at every stage of manufacturing. We have three in-house labs (China & France & the USA) to carry out all PCB tests independently.

P

PRECISION . . .

With 28 entities spread to every corner of the globe, specifically in 17 different countries, ICAPE Group creates a true local proximity that allows us to quickly intervene in order to promptly respond to customers' needs.

E

EXPERTISE . . .

With two decades of experience, we are surrounded by highly qualified engineers and technicians from different industries. From quality to technical and logistics services, we put our entire service organization and expert teams at the service of customers.

Key figures

experts leading the electronics market

28



WORLDWIDE ORGANIZATION

28 SALES UNITS
3 SERVICES OFFICES
(France, the US, China)

600



GLOBAL TEAM

250 EXPERTS IN ASIA
MULTILINGUAL
CUSTOMER SERVICE

230



SALES REVENUE

€230M REVENUE
20% ANNUAL GROWTH
2,000 CLIENTS

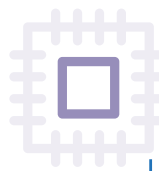
80



PARTNER FACTORIES

80+ FACTORIES IN
SOUTH AMERICA &
ASIA

26



CIRCUIT BOARDS

26 MILLION CIRCUIT
BOARDS DELIVERED
PER MONTH

6



TECHNICAL PARTS

6 MILLION CUSTOM
MADE TECHNICAL
PARTS DELIVERED
PER MONTH

All volumes tailored to each customer needs 3 business models

ICAPE Group offers **3 complementary business models** to cover different customer needs: **prototyping, small series, medium, and large series** alongside our partner suppliers as well as **standalone expert services** with your own supplier!



PROTOTYPES & SMALL SERIES

QUICK TURN SERVICES

OUR PARTNER SUPPLIERS & OUR EXPERT SERVICES

An ideal solution to get your prototypes and small series in 1 to 5 days at a competitive price! You can request a quote or place your order through your local sales contact or directly on our online shop (at www.icape-group.com).



MEDIUM & LARGE SERIES

HIGH MIX LOW VOLUME (HMLV)

OUR PARTNER SUPPLIERS & OUR EXPERT SERVICES

You place your order with any of our 29 business units around the world and we handle your project! We choose one of our partner suppliers to produce your parts and we provide you with our full set of expert services (quality, engineering, lab testing, supply chain, etc).



STANDALONE EXPERT SERVICES

STANDALONE PROJECT MANAGEMENT

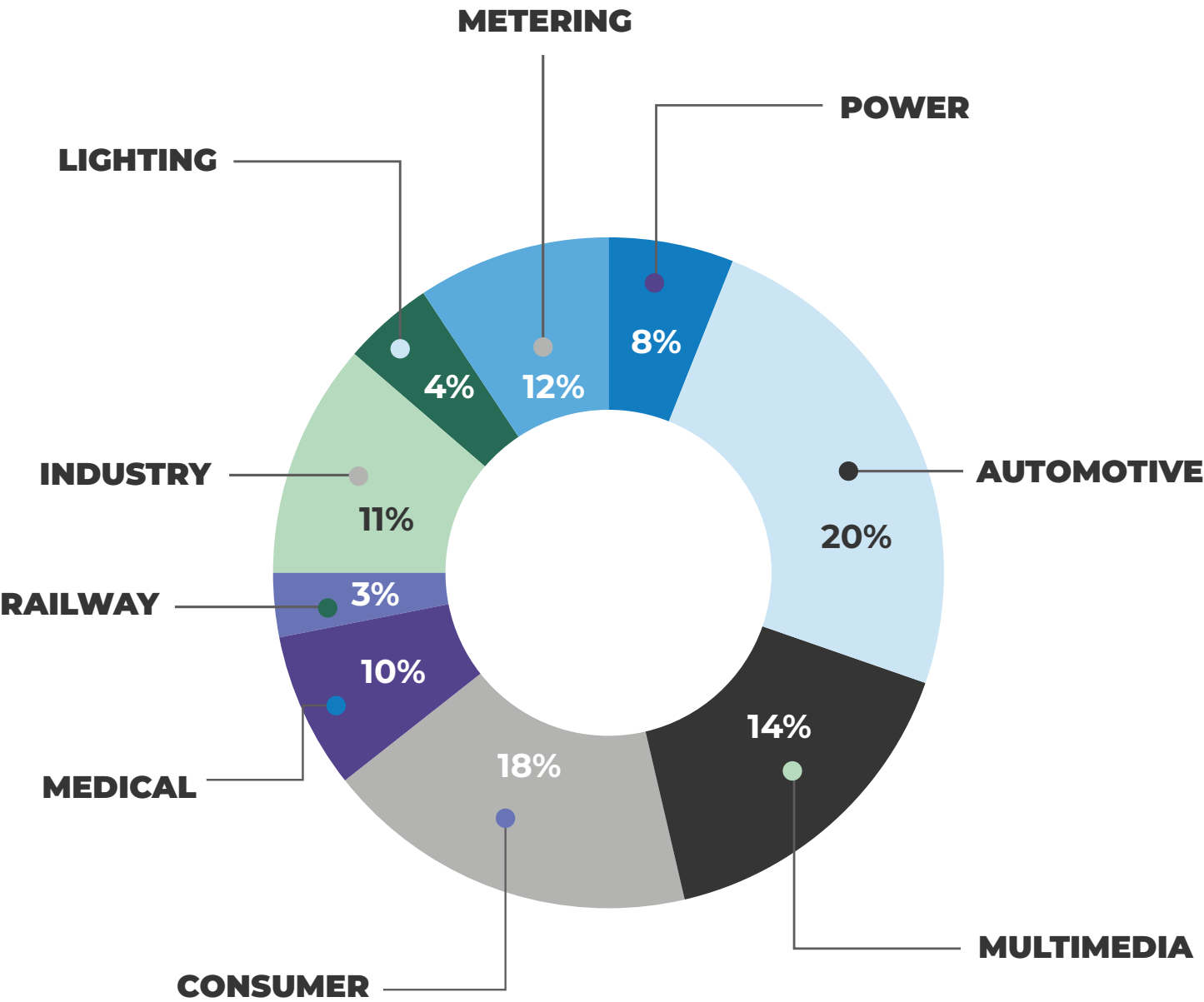
YOUR OWN SUPPLIERS & OUR EXPERT SERVICES

You place your order with your own supplier (NOT one of our AVL suppliers) and we provide you with our full set of expert services (quality, engineering, lab testing, supply chain, etc).

Industry expertise all industries & sectors of the electronic market

At ICAPE Group, we very well understand that **every industry has its own unique needs** with specific goals and objectives. We understand the complexity of each of these industries and collaborate closely with each client to **become an extension of your project team**.

Some of the industries we are proud to service include the following:



Complete offer

icape ... circuit boards

cipem ... custom technical parts

Being a truly global company gives ICAPE Group an advantage.

Thanks to our strategic locations, our diverse and multilingual staff, and our expert service offers, ICAPE Group not only remains a leading player in the global industry, but participates in the improvement of standards and knowledge of our customers and suppliers. We are an IPC member and ISO 9001: 2015 certified.

We have built a very professional network of around 80 strategic factories in Asia and South America to manufacture PCBs and Technical Parts. Each factory specializes in different technologies and services, which enables us to meet all types of needs and requirements of our customers worldwide.

ICAPE Group combines state of the art products and cost-effective solutions for all types of electronic industries.

COMPLEMENTARY OFFERS

ICAPE is an expert in the production of Printed Circuit Boards. Our technical capabilities cover a wide range of board types and technologies:

CIPEM specializes in the production of Custom-Made Technical Parts according to the customers specifications, files and drawings. Thanks to our cost-effective solutions, our customers can benefit from our one stop solution from small to larger production.

EUROPE - ICAPE

- ICAPE FRANCE
- ICAPE DEUTSCHLAND
- ICAPE ITALIA
- ICAPE IBERICA
- ICAPE NETHERLANDS
- ICAPE DENMARK
- ICAPE SWEDEN
- ICAPE MMAB
- ICAPE POLSKA
- ICAPE IDELEC

ASIA & AFRICA - ICAPE

- ICAPE HONG KONG
- ICAPE DONGGUAN
- ICAPE CHANGAN EXPRESS
- ICAPE INDIA
- ICAPE JAPAN
- ICAPE TRAX
- ICAPE SOUTH AFRICA

AMERICAS - ICAPE

- ICAPE USA
- DIVSYS ICAPE
- ICAPE CALIFORNIA
- ICAPE CANADA
- ICAPE MEXICO
- ICAPE BRAZIL

WORLD - CIPEM

- CIPEM HONG KONG
- CIPEM FRANCE
- CIPEM DEUTSCHLAND
- CIPEM USA
- DIVSYS FRANCE

28 business units

ICAPE Group counts 28 Business Units around the world. Each facility looks after different areas or different functions within the overall group. ICAPE and CIPEM have complementary activities and separate teams. This organization brings a lot of potential business opportunities to our customers all around the world.

Global vision

strong local presence

sales & technical support



EUROPE

- FRANCE - ITALY - SPAIN
- PORTUGAL - GERMANY
- POLAND - SWEDEN - THE NETHERLANDS - DENMARK



NORTH AMERICA

- CANADA - USA
- MEXICO



SOUTH AMERICA

- BRAZIL



ASIA

- INDIA - CHINA - HONG KONG - JAPAN



AFRICA

- SOUTH AFRICA

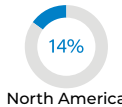
EUROPEAN LEADER

- ICAPE Group has been the European leader in PCB and custom-made technical parts for the past two decades, making Europe a central market for the group.



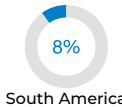
CENTER OF OUR STRATEGY

- The USA is a key market with a full Services Office (equipped with an in-house validation & assurance laboratory). Opened in 2016, ICAPE Mexico is steadily growing. ICAPE Canada opened in 2021.



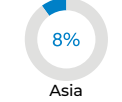
A FRUITFUL GROWTH

- South America benefits from a very dynamic business climate. We entered the South American market in 2010 with the opening of ICAPE Brazil.



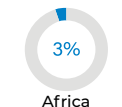
STRONG ASIAN FOCUS

- A focus on Southeast Asia and Japan with the goal of opening up more business units in these regions to provide a stronger local sales and technical support to all our Asian customers.



WORLD'S NEXT BIG GROWTH MARKET

- Africa's fast-growing population and markets present important opportunities for business in an environment of slowing global growth.



Expert services competitively better, with the most effective solution



SALES SERVICES

With a worldwide presence of **28 Business Units**, wherever you are, our sales teams are there for you. All of our ICAPE Group sales representatives **speak your language**: electronics is our native language! Our sales team not only offers you a product, but **real expertise**. ICAPE Group is here to guide you on the market and available options. We always solve issues with the goal of **providing you with more value**.



PURCHASING/SOURCING

Our AVL is composed only of **high-quality suppliers** divided by technology, equipment, industry, capacity, and audit score. We have **a solution for all requests**: whatever the technology, the manufacturing process requested, the volume, or the price. Our AVL, Approved Vendor List, is reworked by our purchasing team regularly as well as **permanent sourcing & benchmarking** to remain up-to-date.



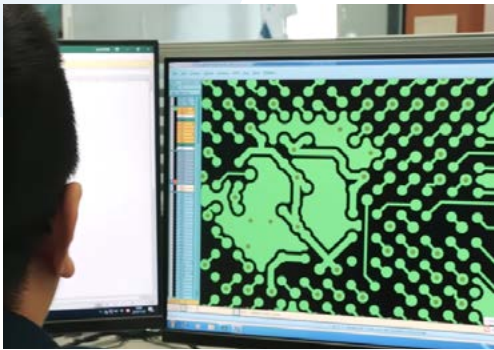
ENGINEERING

All files, data, and specifications submitted by our customers are **checked by our own engineering department** before being transferred to our partners. The Engineering department aims to bring a real service of expertise through improvements in design, technology, materials, and processes according to the characteristics and specificities of the final application sought.



QUALITY

ICAPE Group is the **electronics industry's answer to reducing the number of iterations to achieve fast production-ready status**. Our team of quality experts has extensive knowledge of the manufacture of circuit boards and technical parts allowing us to bring rapid improvements to your projects. Our quality team performs **monthly monitoring and audits** in order to constantly check the quality performance of our partner suppliers.



Customer-centric focus is what gets the job over the goal line



IN-HOUSE TESTING LABS

High quality and neutrality go hand in hand. This is why we have massively invested in two leading edge test labs in China and the USA to **control all the boards we procure independently**. Our ultra-modern labs allow us to check the PCBs of our partner supplier's production lines. Our labs inspect the boards we procure to **guarantee an exact match** with the design file, while offering **standalone services** to detect a wide range of manufacturing defects.



FINANCE & INSURANCE

We have a solid financial organization with several insurance policies. ICAPE Group's customers can benefit from a **third-party liability insurance up to 15 million euros (US\$16.8M)**. We are responsible for our clients' damages or losses, regardless of the cause of those damages.



SUPPLY CHAIN

From our **numerous platforms in Europe, Asia and the Americas**, we can ship to any country. We also offer different incoterms like FOB, FCA, DAP, DDP, as well as **CMI**, Customer Managed Inventory and **VMI**, Vendor Managed Inventory. ICAPE Group has developed a **strategic network of diverse responses** with air freight, railway transport, ground transport, and sea freight. We also have a **consolidation solution** offering low prices for land and sea transport.



ETHICS

Our employees and our partners, despite being independent organizations, all play an **important role within our entire value chain**. Therefore, we promote, foster, and expect all our employees and partners to adopt guidelines consistent with our **Ethics code**, available at **www.icape-group.com**. This code is aimed at mutual benefit and sets out the minimum requirements to which **we expect our employees and partners to act**.



Supply chain

shipping to 70 countries

best delivery times

ICAPE Group has developed a **strategic network of diverse responses** with air freight, railway transport, ground transport, and sea freight.

We also have a **consolidation solution offering low prices** for land and sea transport. We have a logistics team in constant contact with our global teams and forwarders to ensure the best lead times!

From our Hong Kong platform, located 40 minutes from our office in China, we can ship to any country. We also offer different incoterms like FOB, FCA, DAP, DDP.

ICAPE Group has solid expertise in the **global supply chain** for deliveries in any situation!



STRATEGIC COST OPTIMIZATION

- negotiating the best freight rates
- competitive delivery times
- consolidation & groupage to minimize costs



EXPERT LOGISTICS TEAM

- 24/7 Customer Service
- professional ERP (SAP Hana)
- consignment stocks



ICAPE GROUP PACKAGING

- ICAPE Group signature cartons
- shock resistant materials
- able to transport high risk products (batteries)

Storage options

VMI and CMI

our own warehouses

1 AT CUSTOMERS' FACILITY

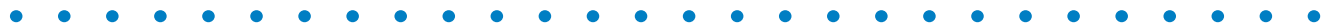
Through our CMI offer, our customers' stock remains within their own warehouses.

2 AT A FACILITY CLOSE TO CLIENTS

We can offer to consign our customers' stock at a warehouse near their business location (may it be near their headquarters or finale customers).

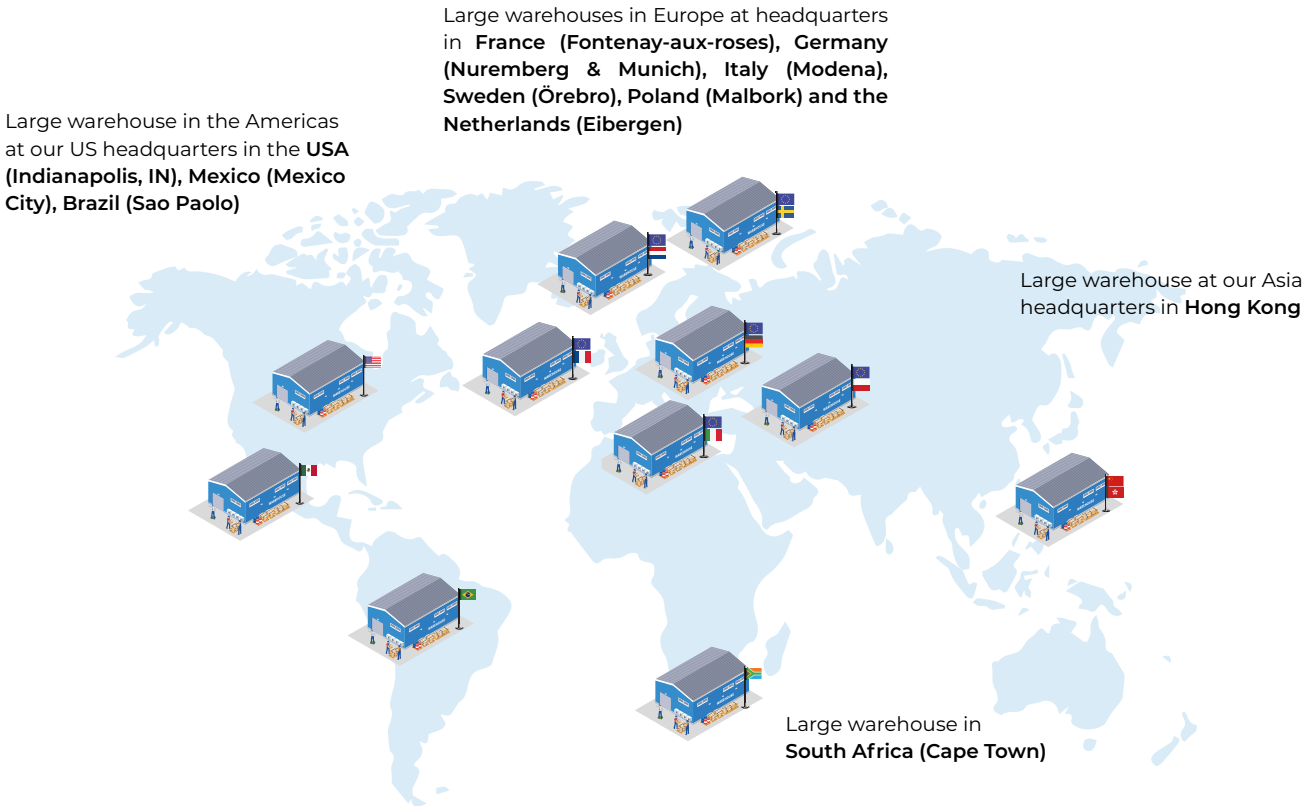
3 AT OUR OWN WAREHOUSES

ICAPE Group has numerous warehouses in Europe, North America, and Asia. See below for more information.



OUR VMI OFFER AT OUR OWN WAREHOUSES

We offer our VMI directly within the warehouse of our customers but also in our own storage warehouses in Europe, the USA and Asia.



Circuit boards

10 technologies

30 partner factories

icafe

Technical parts

10 custom-made

50 partner factories

cipem



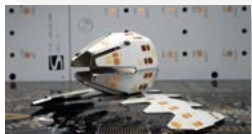
HIGH DENSITY CONNECTION - HDI

- HDI with 1,2 or 3 levels or ELIC construction (with laser microvia)



RIGID-FLEX

- Rigid part (4-16L), FR4
- Flexible parts (1, 2, 4L)
- EMI Shield Film on Flexible area



ALUMINUM (IMS)

- Power & Lighting applications
- Raw material on metallic base: aluminum, copper, steel



SEMI-FLEX

- Economic 3D PCB in FR4 (1-4L)
- Lamination/routing process, cost advantage vs Rigid-Flex



FLEX

- Standard products (4-6L), FR4, photo-sensitive Solder Mask
- Special types (thick copper, thin core, hard gold, etc)
- High layer count (8 to 20 layers)



BACK PANEL / HEAVY COPPER

- Power Electronics
- High layer count (up to 64 layers)



MULTILAYER

- Standard products (4-6L), FR4, photo-sensitive Solder Mask
- Special types (thick copper, thin core, hard gold, etc)
- High layer count (8 to 64 layers)



MICROWAVE/RF

- Radio frequency and antenna applications



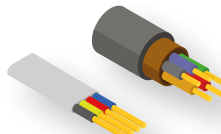
DOUBLE SIDED PTH

- High density products
- Special types



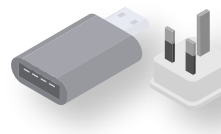
SINGLE SIDED & DOUBLE SIDED STH

- With conductive jumpers: carbon, silver or copper pastes
- Silver Through Holes (STH) or Copper Paste Through Holes (CPTH)



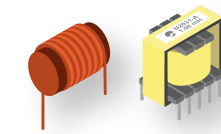
CABLES & CONNECTORS

- Customized Cable Assemblies & Common Cables Assemblies
- Wire Harnesses & Customized Connectors



ADAPTERS

- Wall Mount Adapters & Interchangeable Adapters
- Desktop Adapters & Open Frame Power & LED Drivers



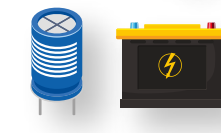
TRANSFORMERS & COILS

- High & Low Frequency Transformers
- Air Coils & Filters & Toroids, Coils & Inductors



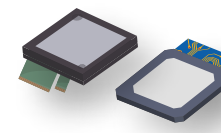
KEYPADS

- Membrane Switch Keypads
- Overlays & Silicone Keypads



BATTERIES

- Li-ion & Li-Po & Ni-Mh & Lead Acid
- Primary Batteries



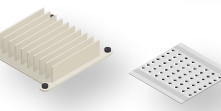
DISPLAYS

- TFT & VA Type
- TN & HTN & STN & FSTN & DFSTN Types



PLASTIC & SILICONE

- Plastic Injection Parts & Plastic Injection Molding
- Silicone Mechanical Parts



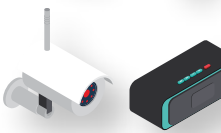
METAL

- Stampings Parts
- Shields & Heatsinks



REMOTE CONTROL UNITS

- IR InfraRed
- BT BlueTooth & RF Radio Frequency



SUB-ASSEMBLIES

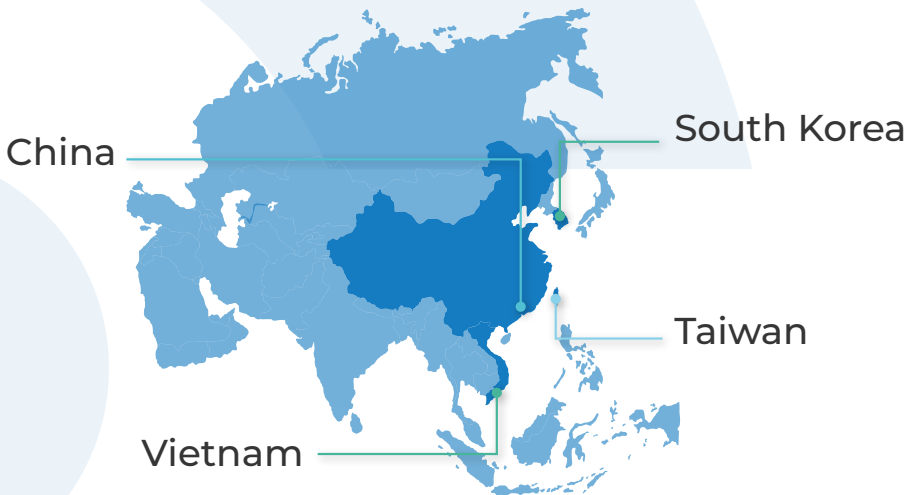
- Electromechanical Assemblies
- PCB Assemblies

Asia services offices near our partner factories 80 partner factories



LARGE CHINA OFFICE

ICAPE Group benefits from having a **real Chinese company** with a **large and modern facility** in Dongguan, China.
Dongguan is located in the **heart of China's electronics** industry.
From this central location, we can easily reach all our Chinese partner factories in less than one hour.

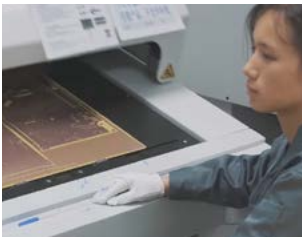


map of
our Asian
partner
factories



EXPERT SERVICES DEPARTMENT

We have **250 highly skilled employees** working in Asia monitoring projects & partner factories on behalf of our customers regardless of their ability to travel.



Strategic location in-house modern PCB lab complete range of testing services



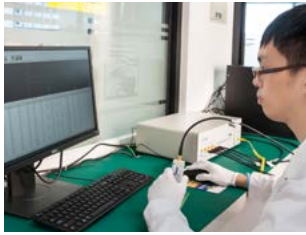
STATE-OF-THE-ART LABORATORY

We have a dedicated team that manages our **in-house pcb test lab** to check the pcbs from our partner factories on a daily basis. This **ultra modern lab** allows us to check the circuit boards of our **partner suppliers' production lines** and to carry out an in-depth analysis of faulty circuits returned by our customers.



MODERN MACHINES
TO PERFORM ANALYSIS

MILLION EURO
INVESTMENT



HONG KONG LOGISTICS PLATFORM

We have a logistics platform in Hong Kong allowing us to **ship everywhere**. We can reach this platform in less than 40 minutes from our Dongguan facility. We offer **consolidation** solution with low prices for land and sea transport.



US services office

local sales and technical support

5 offices throughout the US

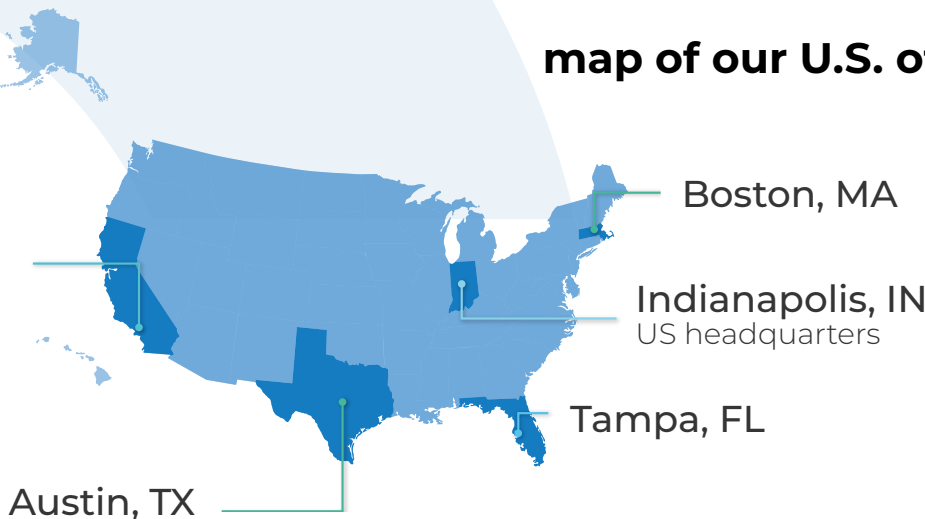


AT THE HEART OF US ELECTRONICS

Our office of **expert services** is located in the historical center of the PCB industry in the United States, in the **state of Indiana**. This large and modern service center is located less than 3 hours from Chicago, IL. This very central and well served location allows us to reach all of our american business units (**CA, TX, FL & MA**).

map of our U.S. offices

Los Angeles, CA



Boston, MA

Indianapolis, IN
US headquarters

Tampa, FL

Austin, TX



EXPERT STAFF & SERVICES

Our team of engineers has **decades of hands on experience** in PCB design, fabrication and assembly. We have a **complete set of services** directly in the USA: purchasing, customer service, engineering, quality, assembly & supply chain.



Expert teams

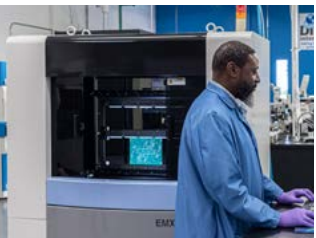
for all industries

uniquely qualified



LEADING-EDGE LAB EQUIPMENT

Our laboratory **reports are not just an exercise in metrics**, but actually provide an “approval for use” report with the results. Our laboratory is used by **customers from all industries to validate bare or assembled boards**, troubleshoot problems, or verify their boards.

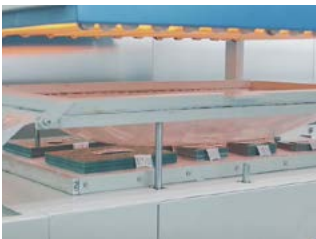
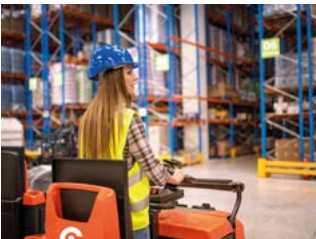


For a complete list of our lab services, please contact your local sales representative.



IN-HOUSE WAREHOUSE

We have a **large warehouse** directly at our head office in Indiana where we can manage and monitor our customers’ stock on their behalf. Our Indiana logistics platform allows us to **ship all over North America**.



Online shops

prototyping and small series

PCB lab testing services

icape shop

www.icapeshop.com



cipem shop

www.cipemshop.com



ICAPE SHOP CAPABILITIES

flex & rigid-flex - hdi - single sided
double sided plated thru holes
multilayer & aluminum

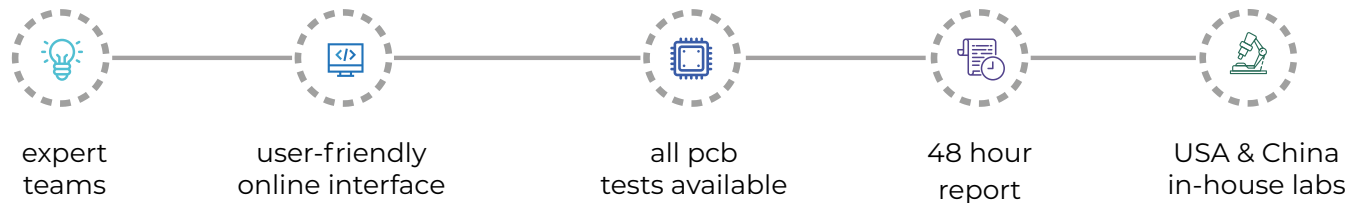
CIPEM SHOP CAPABILITIES

3d printing - metal & plastic cnc/vc
connectors - displays
fan & heatsinks - power supplies
cables & wires - J-STD-001 certifications.

LAB SHOP: PCB lab testing

Do you want the **confidence** that comes from **buying a quality board**?
LAB SHOP IS HERE FOR YOU!

Our in-house laboratories, available online on our LAB Shop, allow us to inspect the boards coming from ICAPE Shop but also to offer stand-alone services for all non-ICAPE Shop customers. **Available on icapeshop.com**



Double quality control

product assurance

and engineering



QUALITY CONTROL

Product Liability Analysis & Assurance Before Shipping

Our products NEVER go directly from the lines of our partner factories to your warehouses! All our boards and technical parts go through two levels of control: first by our partner manufacturers and then by our experts directly within our own inspection offices.

Thanks to our state-of-the-art in-house laboratory equipped with over 15 ultra-modern machines and our highly trained QE and QA teams, we are able to guarantee an exact match with the design file and achieve very low defect rate of 0.1%.

A list of controls performed on all our batches:

- Micro-Section Analysis
- Solder-ability Test
- Thermal Stress Test
- Bow & Twist Control
- V-cut Remain Thickness Analysis
- Plating layer Thickness Analysis
- Ionic Contamination Test
- Gold Surface Roughness Test
- Temperature & Humidity Test (Aging test)
- Dimension Inspection (2D Machine)
- TG Test
- Impedance Test
- Out line Tolerance inspection
- Visual Inspection



ENGINEERING TEAM

Our engineering team has extensive experience in electronics design, fabrication, and assembly, making us uniquely qualified to address all current and future requirement. We can accelerate your product development cycle by reducing the number of design iterations.

icape shop

cipem shop

- | | |
|---|--|
| <ul style="list-style-type: none"> DFM Service (Design For Manufacturing) UCAMCO Report TQ (Technical Question) WG (Working Gerber) Stencil (Paste File) | <ul style="list-style-type: none"> 2D Drawing Acrobat Reader Auto CAD 3D Drawing UG Pro Engineer SoildWorks |
|---|--|

PCB/PCBA lab tests

design guidelines

engineering and reworks

Our's fully equipped laboratories in France, China, and the USA offer a complete range of **testing services for both bare and assembled printed circuit boards**, engineering, and reworks. Our in-house labs inspect the boards we procure to **guarantee an exact match with the design file** while offering **standalone services to detect a wide range of manufacturing defects**. Our laboratory reports are not just an exercise in metrics, but actually provide an “approval for use” report with the results.

The laboratory tests include:



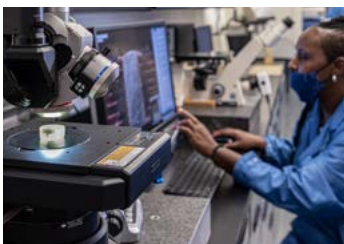
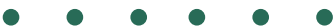
X-RAY FLUORESCENCE

(SURFACE FINISH THICKNESS)
thickness of plating down to 0.00254 micrometers (µm)



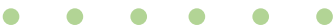
ION CHROMATOGRAPHY

(CLEANLINESS BY IDENTIFYING SPECIFIC IONS)
measures the specific ions in the contamination & the concentration of those ions



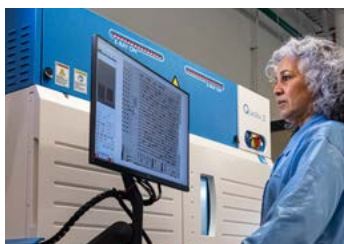
MICRO-SECTION ANALYSIS

(COPPER THICKNESS & HOLE QUALITY)
thermal stress micro-section (after solder float)



BARE BOARD TEST

(OPENS, SHORTS & IMPEDANCE)
flying probe bare board tester - measures opens & shorts against the design net list



X-RAY INSPECTION

(FOR PRODUCTION APPLICATIONS)
detects a wide range of manufacturing defects: BGA, QFN and IGBT attachment, PTH filling, interfacial voiding, component cracking & counterfeit device screening.

Why ICAPE Group

our goal is to make

your job & projects easier!

At ICAPE Group, our approach is to combine our understanding of the electronics market with a **commitment to meeting the business goals of our clients**. Our staff is diverse and talented in all aspects of design, price management, manufacturing, testing, shipping of PCB, and Technical Part projects. We love what we do and it shows in the expert services we provide.



Contacts

28 BUSINESS UNITS LOCATED IN 17 COUNTRIES

ICAPE FRANCE, ICAPE DEUTSCHLAND, ICAPE ITALIA, ICAPE IBERICA, ICAPE NETHERLANDS, ICAPE POLSKA, ICAPE DENMARK, ICAPE SWEDEN, ICAPE MMAB, ICAPE IDELEC, ICAPE USA, ICAPE CALIFORNIA, ICAPE CANADA, ICAPE MEXICO, ICAPE BRAZIL, ICAPE HONG KONG, ICAPE DONGGUAN, ICAPE CHANGAN EXPRESS, ICAPE INDIA, ICAPE JAPAN, ICAPE SOUTH AFRICA, ICAPE TRAX

DIVSYS ICAPE, DIVSYS FRANCE

CIPEM FRANCE, CIPEM DEUTSCHLAND, CIPEM HONG KONG, CIPEM USA

GROUP HEADQUARTERS

Immeuble Volta
33 avenue du Général Leclerc
92260 Fontenay-aux-Roses, France
Tel : + 33 1 58 18 39 10

AMERICAS HEADQUARTERS

8102 Zionsville Rd,
Indianapolis, IN 46268 USA
Tel: +1 317 405 9427

ASIA HEADQUARTERS

18F/19F/20F, Parkway Center,
No. 121, Dong Men Zhong Lu,
Chang An, Dongguan,
Guangdong,
P.R China 523852
Tel: +86 769 8999 7000

Stay in touch

www.icape-group.com

